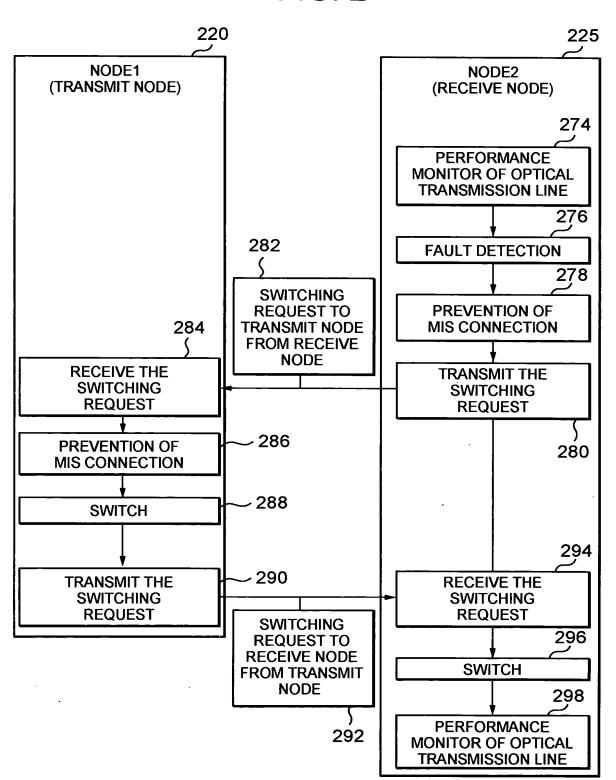




FIG. 2



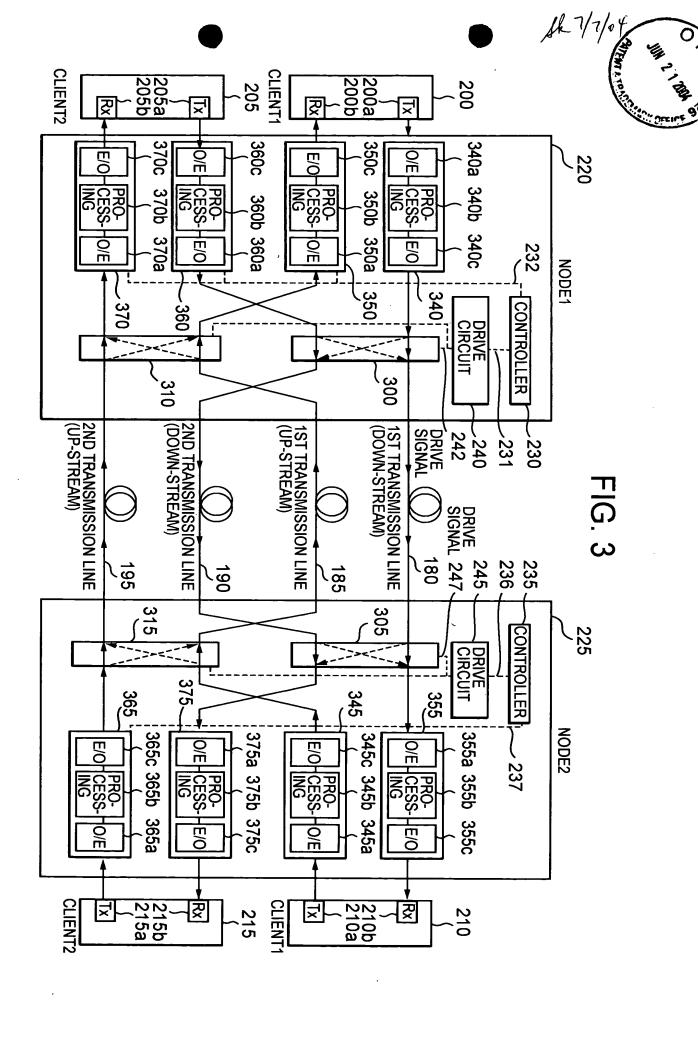


FIG. 4

	PRIORITY	TRANSMISSION LINE	CONTROL SIGNAL COMMUNICATION EQUIPMENT	COMMUNICATION
			NODE1	NODE2
SWITCHING REQUEST TO TRANSMIT NODE (NODE1) FROM	FIRST	2ND TRANSMISSION LINE (UP-STREAM)195	LINE OUTPUT DEVICE 370	LINE INPUT DEVICE 365
RECEIVE NODE (NODE2) (282)	SECOND	1ST TRANSMISSION LINE(UP-STREAM)185	LINE OUTPUT DEVICE 350	LINE INPUT DEVICE 345
SWITCHING REQUEST TO RECEIVE NODE	FIRST	2ND TRANSMISSION LINE (DOWN-STREAM)190	LINE INPUT DEVICE 340	LINE OUTPUT DEVICE 375
(NODE1) (292)	SECOND	1ST TRANSMISSION LINE (DOWN-STREAM)180	LINE INPUT DEVICE 360	LINE OUTPUT DEVICE 355



FIG. 5

		1ST TRANSMISSION LINE(DOWN-STREAM) 180	1ST TRANSMISSION 2ND TRANSMISSION LINE(UP-STREAM) LINE(DOWN-STREAM 185	2ND TRANSMISSION LINE(DOWN-STREAM) 190	2ND TRANSMISSION LINE(UP-STREAM) 195
NORMAL	TRANSMITTER	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 360	LINE INPUT DEVICE 365
STATE	PERFORMANCE MONITOR	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350	LINE OUTPUT DEVICE 375	LINE OUTPUT DEVICE 370
AFTER	TRANSMITTER	LINE INPUT DEVICE 360	LINE INPUT DEVICE 365	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345
SWITCHING	SWITCHING PERFORMANCE MONITOR	LINE OUTPUT DEVICE 375	LINE OUTPUT DEVICE 370	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350



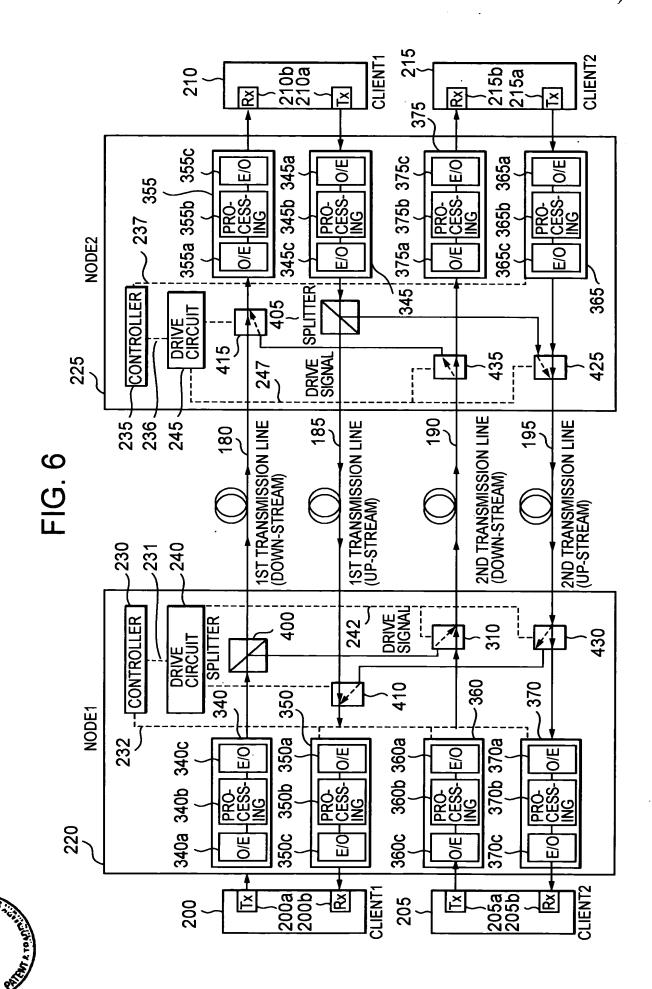


FIG. 7

	PRIORITY	TRANSMISSION NODE	CONTROL SIGNAL COMMUNICATION EQUIPMENT	COMMUNICATION
			NODE1	NODE2
SWITCHING REQUEST TO TRANSMIT NODE (NODE1) FROM	FIRST	2ND TRANSMISSION LINE (UP-STREAM)195	LINE OUTPUT DEVICE 370	LINE INPUT DEVICE 365
RECEIVE NODE	SECOND	1ST TRANSMISSION	LINE OUTPUT	LINE INPUT
(NODE2) (282)		LINE(UP-STREAM)185	DEVICE 350	DEVICE 345
SWITCHING REQUEST	FIRST	2ND TRANSMISSION LINE	LINE INPUT	LINE OUTPUT
TO RECEIVE NODE		(DOWN-STREAM)190	DEVICE 340	DEVICE 375
TRANSMIT NODE	SECOND	1ST TRANSMISSION LINE	LINE INPUT	LINE OUTPUT
(NODE1) (292)		(DOWN-STREAM)180	DEVICE 340	DEVICE 355



FIG. 8

		1ST TRANSMISSION LINE(DOWN-STREAM) 180	1ST TRANSMISSION 2ND TRANSMISSION LINE(UP-STREAM) LINE(DOWN-STREAM 190	2ND TRANSMISSION LINE(DOWN-STREAM) 190	2ND TRANSMISSION LINE(UP-STREAM) 195
NORMAL	TRANSMITTER	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 360	LINE INPUT DEVICE 365
STATE	PERFORMANCE MONITOR	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350	LINE OUTPUT DEVICE 375	LINE OUTPUT DEVICE 370
AFTER	TRANSMITTER	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345
SWITCHING	PERFORMANCE MONITOR	NONE	NONE	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350



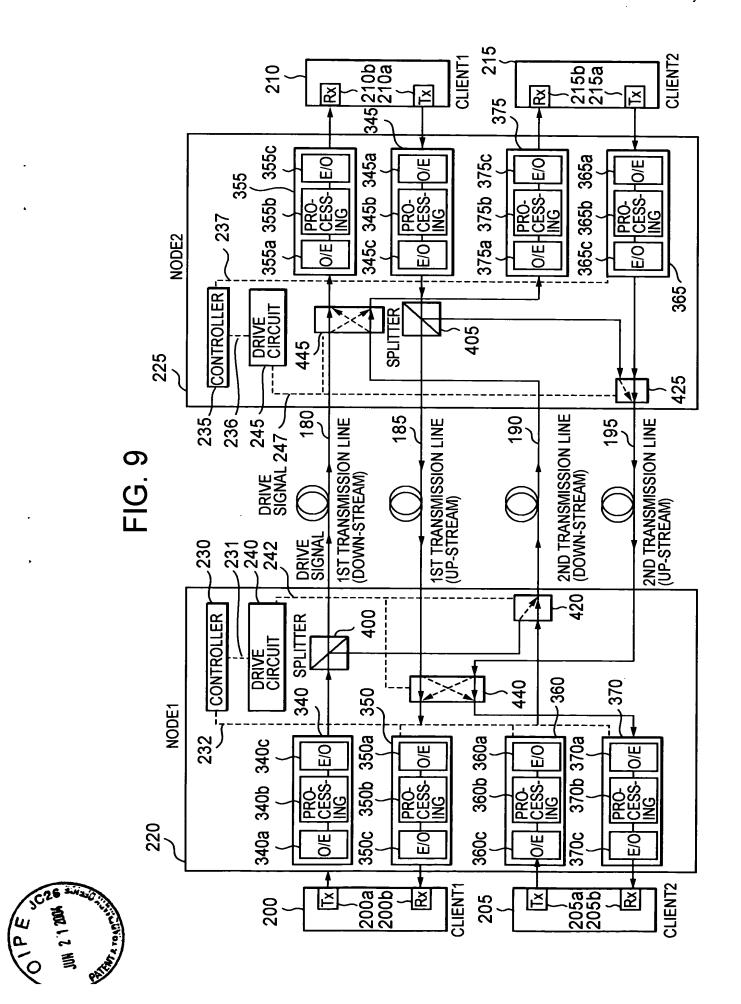
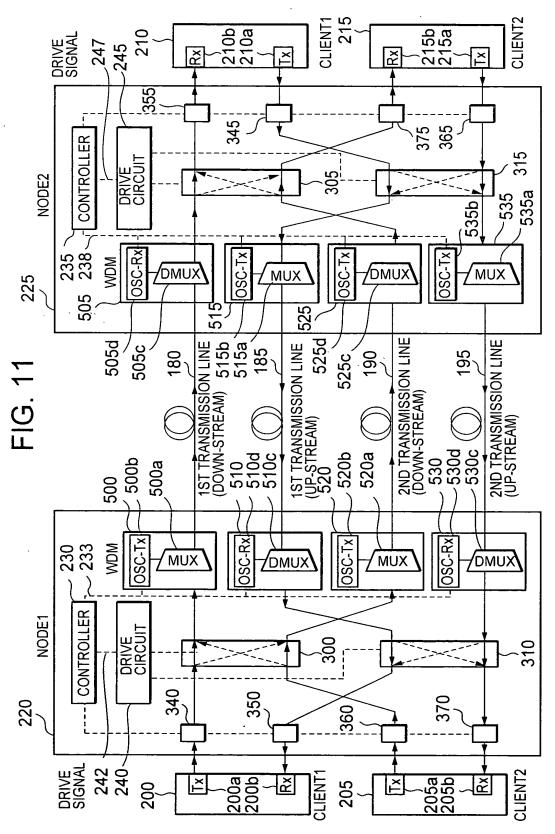


FIG. 10

		1ST TRANSMISSION LINE(DOWN-STREAM) 180	1ST TRANSMISSION 2ND TRANSMISSION LINE(UP-STREAM) LINE(DOWN-STREAM) 190	2ND TRANSMISSION LINE(DOWN-STREAM) 190	2ND TRANSMISSION LINE(UP-STREAM) 195
NORMAI	TRANSMITTER	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 360	LINE INPUT DEVICE 365
STATE	PERFORMANCE MONITOR	LINE OUTPUT DEVICE 355	LINE OUTPUT	LINE OUTPUT	LINE OUTPUT DEVICE 370
AFTER	TRANSMITTER	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345
SWITCHING	PERFORMANCE MONITOR	LINE OUTPUT DEVICE 375	LINE OUTPUT DEVICE 370	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350









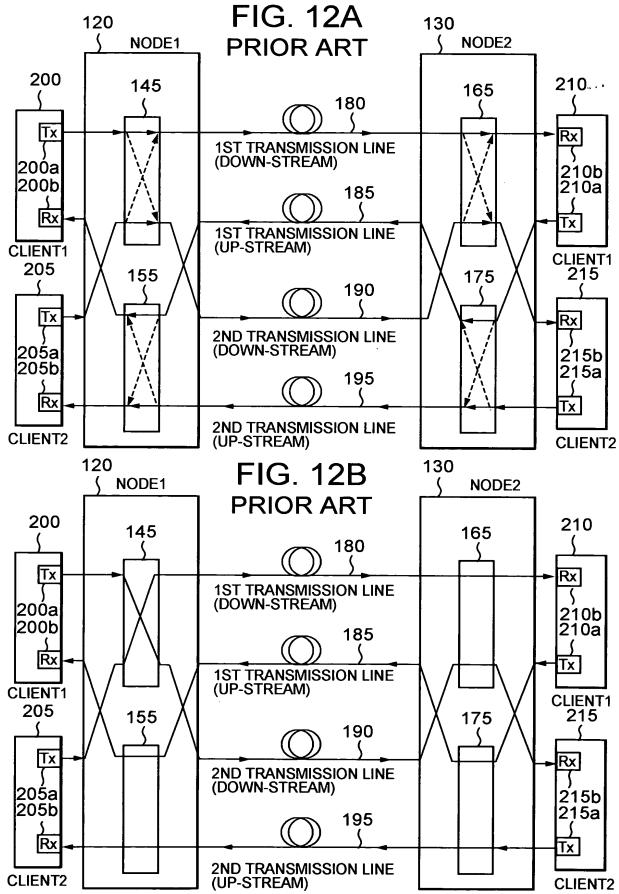




FIG. 13 PRIOR ART

		RECEIVER	
TRANSMITTER	NORMAL.	AFTER SWITCHING OF TRANMITTING NODE	AFTER SWITCHING OF BOTH NODES
200a CLIENT1	210b	215b (MIS CONNECTION)	210b
205a CLIENT2	215b	210b (CONNECTION)	215b